

Title (en)

DATA FRAGMENTATION ANALYSIS METHOD AND RELATED APPARATUS

Title (de)

DATENFRAGMENTIERUNGSANALYSEVERFAHREN UND ZUGEHÖRIGE VORRICHTUNG

Title (fr)

PROCÉDÉ D'ANALYSE DE FRAGMENTATION DE DONNÉES ET APPAREIL ASSOCIÉ

Publication

EP 4199574 A4 20240327 (EN)

Application

EP 21859921 A 20210709

Priority

- CN 202010880699 A 20200827
- CN 2021105615 W 20210709

Abstract (en)

[origin: EP4199574A1] This application provides a data segment parsing method, a transmitter, and a related product. The method includes: processing bit-interleaved data bits of one spatial stream into a plurality of data segments carried in a plurality of subcarrier groups, where each subcarrier group includes one or more subcarriers, and a subcarrier in each subcarrier group carries a data bit of one of the data segments; and mapping, by using a spatial and frequency mapping unit, the plurality of data segments carried in the plurality of subcarrier groups to subcarriers in a resource unit RU allocated to one station within a bandwidth. The RU may include a distributed RU and/or a contiguous RU. According to the method, the distributed RU and/or contiguous RU may be used to send a data field, which enriches RU allocation implementations, and improves reliability of data field transmission. Embodiments of this application may be applied to a wireless local area network system supporting the next-generation Wi-Fi EHT protocol of IEEE 802.11, for example, 802.11 protocols such as 802.11be.

IPC 8 full level

H04W 28/02 (2009.01); **H04B 7/06** (2006.01); **H04L 1/00** (2006.01); **H04L 1/06** (2006.01); **H04L 5/00** (2006.01); **H04L 27/26** (2006.01)

CPC (source: CN EP)

H04B 7/0669 (2013.01 - EP); **H04L 1/0041** (2013.01 - EP); **H04L 1/0057** (2013.01 - EP); **H04L 1/0071** (2013.01 - CN EP); **H04L 1/0643** (2013.01 - EP); **H04L 5/001** (2013.01 - EP); **H04L 5/0023** (2013.01 - EP); **H04L 5/0044** (2013.01 - EP); **H04L 5/0046** (2013.01 - EP); **H04L 5/0094** (2013.01 - EP); **H04W 28/02** (2013.01 - EP); **H04W 28/0263** (2013.01 - CN); **H04W 28/065** (2013.01 - CN); **H04W 84/12** (2013.01 - CN); **H04L 27/2602** (2013.01 - EP); **H04L 27/2626** (2013.01 - EP)

Citation (search report)

- [X] US 10536196 B2 20200114 - GENG CHUNHUA [US], et al
- [A] "High Efficiency (HE) PHY specification", vol. 802.11ax drafts, no. D3.0, 1 June 2018 (2018-06-01), pages 1 - 279, XP068137591, Retrieved from the Internet <URL:www.ieee802.org/11/private/Draft_Standards/11ax/TGax_CI_28.rtf> [retrieved on 20180601]
- See also references of WO 2022042081A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 4199574 A1 20230621; **EP 4199574 A4 20240327**; CN 114125929 A 20220301; CN 114125929 B 20240409; CN 118317360 A 20240709; WO 2022042081 A1 20220303

DOCDB simple family (application)

EP 21859921 A 20210709; CN 202010880699 A 20200827; CN 2021105615 W 20210709; CN 202410324768 A 20200827